

```
function wave_length(t,d)
```

```
! **利用牛頓近似法，已知週期 T 及水深 d 從分散關係式求波長(m)**
```

```
! t : wave period (sec)
```

```
! d : water depth (m)
```

```
pai2=6.283185
```

```
dd=pai2*d/(9.8*t**2/pai2)
```

```
x=dd
```

```
if(dd > 1.0) x=sqrt(dd)
```

```
4 coth=1.0/tanh(x)
```

```
xx=x-(x-dd*coth)/(1.0+dd*(coth**2-1.0))
```

```
emin=1.0-xx/x
```

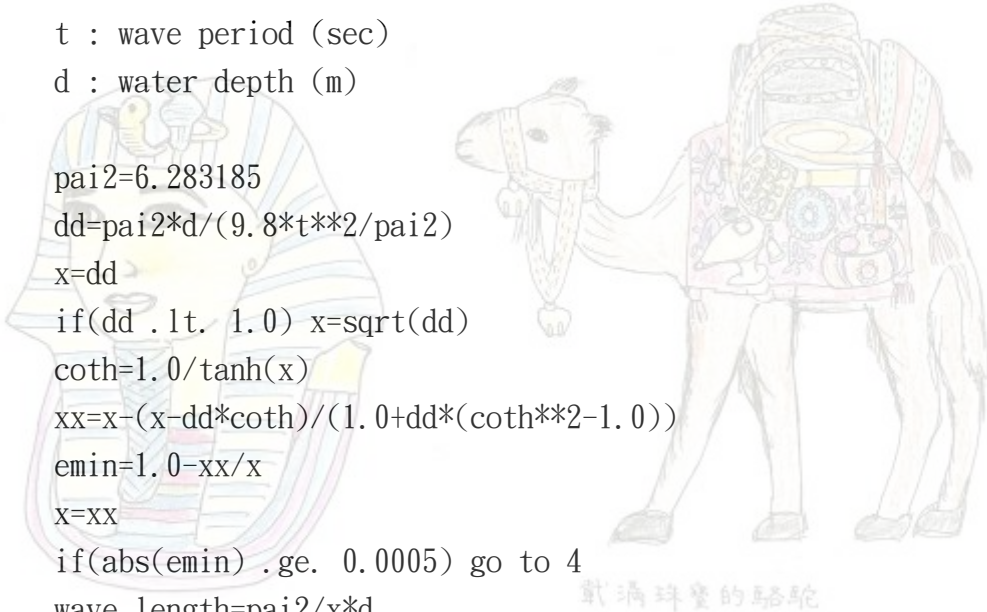
```
x=xx
```

```
if(abs(emin) >= 0.0005) go to 4
```

```
wave_length=pai2/x*d
```

```
return
```

```
end
```



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阿拉丁神燈